# BSc Honours in Cellular, Molecular and Microbial Biology - Recommended Course Sequence

(Fall 2020, Fall 2021 Calendar Regulations)

## 1st YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. BIOL 241</td>
<td>2. BIOL 243</td>
</tr>
<tr>
<td>3. MATH 249(^1) or 265</td>
<td>4. MATH 211 or 267 or STAT 327</td>
</tr>
</tbody>
</table>

May be taken either semester:

7. CHEM 201
8. CHEM 203
9. Non-Science Option\(^2\)
10. Option selected from the Faculty of Arts\(^3\)

\(^1\)Junior Science Breadth fulfilled by ONE of the following pairs:
A. CPSC 217 (Fall) and CPSC 219 (Winter)
B. GLGY 201 (Fall) and GLGY 202 (Winter)
C. PHYS 211 or 221 (Fall) and PHYS 223 (Winter)

\(^2\)A non-science option is any course from faculties other than the Faculty of Science, excluding courses in Table 1

\(^3\)Any course offered by the Faculty of Arts, excluding courses in Table 1

\(^1\)MATH 249 is open only to students without MATH 31.

## 2nd YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
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<tbody>
<tr>
<td>1. BIOL 311</td>
<td>2. BIOL 331</td>
</tr>
<tr>
<td>3. BIOL 371</td>
<td>4. BCEM 393</td>
</tr>
<tr>
<td>5. CHEM 371</td>
<td>6. CHEM 353</td>
</tr>
<tr>
<td>7. CMMB 343</td>
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</tr>
</tbody>
</table>

May be taken either semester:

8. Option NOT in the Field of Cellular, Molecular and Microbial Biology (Non-Major Field Requirement)
9. Non-Science Option (Breadth Requirement)
10. Option selected from the Faculty of Arts

## 3rd YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CMMB 411</td>
<td>2. CMMB 451</td>
</tr>
</tbody>
</table>

May be taken either semester:

3. BCEM 431 (Winter) or BCEM 443 (Fall)
4. Course towards Cell Biology Emphasis or Microbiology Emphasis\(^1\)
5. Course towards Cell Biology Emphasis or Microbiology Emphasis\(^1\)
6. Option NOT in the Field of Cellular, Molecular and Microbial Biology (Non-Major Field Requirement)
7. Option NOT in the Field of Cellular, Molecular and Microbial Biology (Non-Major Field Requirement)
8. Non-Science Option (Breadth Requirement)
9. Non-Science Option (Breadth Requirement)
10. Open Option\(^2\)

\(^1\)Students require 12 units from:
A. Cell Biology Emphasis: CMMB 403 and three of: CMMB 413, 461, 505, 511, 519, 523, 531, or 561
OR
B. Microbiology Emphasis: CMMB 421, CMMB 443 and two of: CMMB 431, 461, 523, 543, 545, 549, 563 or BIOL 435

\(^2\)Any course offered by any Faculty

## 4th YEAR

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CMMB 530A</td>
<td>2. CMMB 530B</td>
</tr>
<tr>
<td></td>
<td>3. CMMB 507.95</td>
</tr>
<tr>
<td></td>
<td>4. CMMB 527</td>
</tr>
</tbody>
</table>

May be taken either semester:

5. Course towards Cell Biology Emphasis or Microbiology Emphasis\(^1\)
6. Course towards Cell Biology Emphasis or Microbiology Emphasis\(^1\)
7. Open Option\(^2\)
8. Open Option\(^2\)
9. Open Option\(^2\)
10. Open Option\(^2\)

\(^1\)Students require 12 units from:
A. Cell Biology Emphasis: CMMB 403 and three of: CMMB 413, 461, 505, 511, 519, 523, 531, or 561
OR
B. Microbiology Emphasis: CMMB 421, CMMB 443 and two of: CMMB 431, 461, 523, 543, 545, 549, 563 or BIOL 435

\(^2\)Any course offered by any Faculty